

Appl. No. 10/711,192
Amdt. dated June 21, 2006
Reply to Office action of May 12, 2006

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

- 1 (currently amended): A connection device capable of mixing a red-green-blue (RGB) graphics signal and a luminance-bandwidth-chrominance (YUV) video signal comprising:
- 5 a graphics transforming module for transforming the RGB graphics signal into a YUV graphics signal; [[and]]
- a mixing module connected to the graphics transforming module for receiving the YUV video signal and the YUV graphics signal from
- 10 the graphics transforming module, the mixing module outputting a YUV signal after mixing the YUV video signal and the YUV graphics signal;
- a first switching module for receiving the RGB graphics signal, the first switching module including:
- 15 a first output for outputting the RGB graphics signal to the graphics transforming module; and
- a second output for outputting the RGB graphics signal to the mixing module;
- a video transforming module connected to the mixing module for transforming the YUV video signal into an RGB video signal;
- 20 a second switching module for receiving the YUV video signal, the second switching module including:
- a first output for outputting the YUV video signal to the video transforming module; and
- 25 a second output for outputting the YUV video signal to the mixing module;
- an output interface directly connected to the mixing module for receiving the

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output of the mixing module; and
a basic input-output system (BIOS) for selecting one of the two
outputs of the first switching module to output the RGB graphics
signal and for selecting one of the two outputs of the second
5 switching module to output the YUV video signal according to the
output interface connected to the mixing module;
wherein the mixing module is capable of receiving the RGB graphics
signal and the RGB video signal, and outputting an RGB signal
after mixing the RGB graphics signal and the RGB video signal.

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2-3 (cancelled).

4 (original): The connection device of claim 3 wherein the output interface
is a TV output interface.

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5 (original): The connection device of claim 3 wherein the output interface
is a liquid crystal display (LCD) output interface.

6 (original): The connection device of claim 3 wherein the output interface
20 is a cathode ray tube (CRT) output interface.

7 (original): The connection device of claim 3 wherein the output interface
is a plasma display panel (PDP) output interface.

25 8 (currently amended): A method for mixing an RGB graphics signal and a
YUV video signal comprising:
inputting an RGB graphics signal into a first switching module;
inputting a YUV video signal into a second switching module;

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5 when detecting that an output interface is the output interface
receiving a YUV signal, a control signal is utilized for controlling
the first switching module to transform the RGB graphics signal
into a YUV graphics signal, and mixing the YUV graphics signal
and the YUV video signal of the second switching module for
generating the YUV signal; [[and]]

10 when detecting that an output interface is the output interface
receiving an RGB signal, the control signal is utilized for
controlling the second switching module to transform the YUV
video signal into an RGB video signal, and mixing the RGB video
signal and the RGB graphics signal of the first switching module
for generating the RGB signal; and
outputting the mixed signal directly to the output interface.